

FORM PTO-1590 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 2-2004)

ATTORNEY'S DOCKET NUMBER

T3736-9303US01

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

**10/519911**

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

INTERNATIONAL APPLICATION NO.  
PCT/JP03/008553INTERNATIONAL FILING DATE  
04 July 2003PRIORITY DATE CLAIMED  
04 July 2002

## TITLE OF INVENTION

ELECTROCARDIOGRAM ANALYSIS DEVICE AND METHOD THEREOF

## APPLICANT(S) FOR DO/EO/US

NAGATA, Shinya; NAGAI, Ryuji; KOUCHI, Kenji

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

## Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☒ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☒ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☐ Express Mail Label No.
23. ☒ Other items or information:

Copy of Form PCT/IB/308  
17 Sheets Formal Drawings

Assignment Information:

Assignee: Dainippon Pharmaceutical Co., Ltd.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                       |  |            |   |            |
|--|-----------------------|--|------------|---|------------|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5)<br><b>10/519911</b>   |                       | INTERNATIONAL APPLICATION NO.<br><b>PCT/JP03/008553</b>                |            | ATTORNEY'S DOCKET NUMBER<br><b>T3736-9303US01</b> |            |
| 24. The following fees are submitted:  |                       |  |            | Applicant use                                     | Office use |
| <input checked="" type="checkbox"/>  | a) Basic national fee | \$300.00   | \$         | \$300.00  |            |
| <input checked="" type="checkbox"/>  | b) Examination fee    | \$200.00   | \$         | \$200.00  |            |
| <input checked="" type="checkbox"/>  | c) Search fee         | \$500.00   | \$         | \$500.00  |            |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |                       |  | \$         | \$1,000.00  |            |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |                       |  |            |   |            |
| Total Sheets   | Extra Sheets          | Number of each additional 50 or fraction thereof (round up to a whole) | RATE       |   |            |
| - 100 =  | /50 =                 |  | x \$250.00 | \$  | \$0.00     |
| Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).  |                       |  |            | \$  |            |
| CLAIMS   | NUMBER FILED          | NUMBER EXTRA   | RATE       |   |            |
| Total claims   | 15 - 20 =             | 0  | x \$50.00  | \$  | \$0.00     |
| Independent claims   | 7 - 3 =               | 4  | x \$200.00 | \$  | \$800.00   |
| MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/>   |                       |  | + \$360.00 | \$  | \$0.00     |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |                       |  |            | \$  | \$1,800.00 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |                       |  |            | \$  | \$0.00     |
| <b>SUBTOTAL =</b>  |                       |  |            | \$  | \$1,800.00 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |                       |  |            | \$  | \$0.00     |
| <b>TOTAL NATIONAL FEE =</b>  |                       |  |            | \$  | \$1,800.00 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +  |                       |  |            | \$  | \$40.00    |
| <b>TOTAL FEES ENCLOSED =</b>   |                       |  |            | \$  | \$1,840.00 |
| Amount to be refunded:   |                       |  |            | \$  |            |
| Amount to be charged:  |                       |  |            | \$  |            |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <b>\$1,840.00</b> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is _____</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>50-1165</b>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> |                       |  |            |   |            |
| <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Jason H. Vick<br/>Miles &amp; Stockbridge P.C.<br/>Customer No. 181</p>   |                       |  |            |   |            |
|  |                       |  |            | SIGNATURE   |            |
|  |                       |  |            | Jason H. Vick                                     |            |
|  |                       |  |            | NAME  |            |
|  |                       |  |            | 45,285  |            |
|  |                       |  |            | REGISTRATION NUMBER                               |            |

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|  |  |   |  |
|--|--|---|--|
| <p>Effective on 12/8/2004<br/>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818)</p> <h1 style="text-align: center;">FEE TRANSMITTAL</h1> <h2 style="text-align: center;">For FY 2005</h2> <p style="text-align: center;">Patent fees are subject to annual revision</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p> |  | <p style="text-align: right;">Complete if Known</p> <p>Application Number <b>10/519911</b></p> <p>Filing Date <b>Herewith</b></p> <p>First Named Inventor <b>NAGATA, Shinya</b></p> <p>Examiner Name</p> <p>Art Unit</p> <p>Attorney Docket No. <b>T3736-9303US01</b></p> |  |
| <p>TOTAL AMOUNT OF PAYMENT <b>\$1840.00</b></p>  |  |   |  |

### METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☐ Deposit Account Deposit Account Number: 50-1165 Deposit Account Name: Miles & Stockbridge P.C.  
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

### FEE CALCULATION

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   | \$1,000.00     |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

#### 2. EXCESS CLAIM FEES

| Fee Description                                    | Small Entity Fee (\$) | Fee Paid (\$)   |
|--|-----------------------|-----------------|
| Each claim over 20 (including Reissues)            | 50                    | 25              |
| Each independent claim over 3 (including Reissues) | 200                   | 100             |
| Multiple dependent claims                          | 360                   | 180             |
| <b>Total Claims</b>                                | <b>Extra Claims</b>   | <b>Fee (\$)</b> |
| 15 - 20 or HP = 0 x                                |                       | 0               |
| <b>Indep. Claims</b>                               | <b>Extra Claims</b>   | <b>Fee (\$)</b> |
| 7 - 3 or HP = 4 x                                  |                       | 800.00          |

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| - 100 =      | / 50 =       | (round up to a whole number) x                   |          |               |

#### 4. OTHER FEE(S)

|   |         |
|---|---------|
| Non-English Specification, \$130 fee (no small entity discount) |         |
| Other (e.g., late filing surcharge): Assignment Recordation Fee | \$40.00 |

|                                 |                         |                          |                   |
|---------------------------------|-------------------------|--------------------------|-------------------|
| SUBMITTED BY                    |                         | Complete (if applicable) |                   |
| Signature                       | Registration No. 45,285 | Telephone                | (703) 903-9000    |
| Name (Print/Type) Jason H. Vick |                         | Date                     | December 30, 2004 |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.